Minnie H. Cui

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• Majors: Industrial Organization, Finance

PhD, Economics & Finance

University of Texas at Austin, Department of Computer Science

Austin, US

MS, DATA SCIENCE

2021 - 2022

2022 - pres.

• Select courses: Deep Learning, Natural Language Processing, Optimization

University of Toronto, Department of Economics

Toronto, CA

BA Hons., Economics

2014 – 2018

- 2018 Canadian Economics Association Best Undergraduate Paper Award
- Concentration: Specialist in Economics and Minor in Mathematics
- Select courses: Applied Econometrics II, International Finance, Economic Growth

Experience_

Analyst Ottawa, CA

BANK OF CANADA, ECONOMIC AND FINANCIAL RESEARCH DEPARTMENT

2021 – 2022

• Technical Lead for Canadian NielsenIQ Data and primary data modeler for NielsenIQ Homescan's Microsoft Azure Data Lake/SOL storage solution

- Producing research on household consumption, COVID-19 inflation, niche consumption, transition to online transactions using NielsenIQ Homescan
- Research contributor to the Bank's diversity & inclusion in economics project

Research Assistant Ottawa, CA

BANK OF CANADA, ECONOMIC AND FINANCIAL RESEARCH DEPARTMENT

2018 - 2021

- Provided research assistance on publications in the Review of Economic Studies, Journal of Monetary Economics, Economic
 Journal, Canadian Journal of Economics, and more
- Provided statistical analysis, regression analysis, web-scraping, geo-spatial data analysis for various projects led by Governing Council members and the Bank's Senior Research Officers

Research Assistant Toronto, CA

University of Toronto, Factor-Inwentash Faculty of Social Work

2016 - 2020

- Generated various infographics summarizing the findings of publications by the Affirmative Research Collaborative and members of the International Partnership for Queer Youth Resilience
- · Created and maintained the following websites: www.inqyr.org, www.affirmativeresearch.org

Projects_

Canada COVID-19 Tracker | https://mhcui.shinyapps.io/Canada_COVID/

2020 - pres.

R SHINY APPS

- Developed a dashboard that tracks Canadian daily COVID-19 cases, deaths, vaccination rates, government stringency, economic impact, and several dynamic metrics unavailable elsewhere
- Updated daily

Canada Daily Climate Data Set | https://github.com/minnzc/Canada_Daily_Climate/

2021 – pres.

PYTHON, GIT

- Created daily Canada average climate conditions (maximum, minimum, and average temperatures, total precipitation, wind gust, and more) by Census divisions and Census subdivisions data sets
- Updated weekly

Publications_ Cui, M. H., Jiang, G. Mosweu B. (2021). Swimming in the Data Lake: An application to NielsenIQ Homescan [Paper Presentation]. Bank for International Settlements IFC Workshop on Data Science in Central Banking. Cui, M. H. & Kryvtsov, O. (2021). Falling Niche Consumption: the case of Canada 2013-2020. Working paper. Cui, M. H., Shuai, A. & Tino, S. (2018). Relative age and early childhood participation in extracurricular activities. Working paper. Presentations ___ Presenting author for all listed. 2022 BIS, IFC Data Science in Central Banking Online 2021 ISEAPA, North American Productivity Workshop Online 2018 Canadian Economics Association, CEA Annual Conference Montreal, QC Fellowships, Scholarships, Awards _____ 2022–2026 **Doctoral Fellowship**, SSHRC 2020 Women in Economics Scholarship, Bank of Canada 2018 Best Undergraduate Paper, Canadian Economics Association The Regents Participation Awards, University of Toronto Richard Iorweth Thorman Bursary, University of Toronto Kathleen Watson Memorial Award, University of Toronto The William and Margaret Wilson Bursary, University of Toronto 2016 Hosinec Family Scholarship, University of Toronto President's Scholar Program Scholarship, University of Toronto Technical Skills _____ Analysis Machine learning, deep learning, geo-spatial analysis, regression analysis Python, Matlab, R, SQL, HTML/CSS Languages

Git, Microsoft Azure, Google Cloud Platform, Amazon Web Services, VS Code, Anaconda, PyCharm Developer

Softwares Stata, Excel

Create data Simulation & modelling, web-scraping

Citizenship & Language Proficiency _____

Citizenship Canada

Languages English (native), Mandarin (native), French (fluent)